	Application No.	Applicant(s)	
Notice of Allowability	10/711,869	TAYLOR ET AL.	
	Examiner	Art Unit	
	C. J. Arbes	3729	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>01 January 2007</u> .			
2. The allowed claim(s) is/are <u>1-15</u> .			
<ul> <li>3.</li></ul>			
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s).			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	-	<ul><li>5. ☐ Notice of Informal Patent Application</li><li>6. ☒ Interview Summary (PTO-413),</li></ul>	
	Paper No./Mail Date	Paper No./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>herein</u></li> </ol>	7. 🛛 Examiner's Amendr	nent/Comment	
4.   Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	nt of Reasons for Allowance	
of Biological Material	9.  Other	Qa -	
		CARL J. ARBES PRIMARY EXAMINER	

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stuart Auvinen, Patent Agent on 16 February 2007.

## **Examiner's Amendment**

## In the Claims:

Claims 16-23 have been cancelled.

The Title have been amended to – Method of Making a Surface Mountable PCB Module--

## Office's Reasons for an Allowance

COMES NOW the Patent Office and offers a reason for the allowance of the Application to wit: that the Prior Art neither teaches or in any reasonable combination, suggest a manufacturing process for making a mountable printed circuit board (PcB) module including the steps of etching inner metal layers on both sides of an insulating core to form patterned interconnect on the inner metal layers, laminating a component metal sheet and a component insulating layer over one of the inner metal layers, laminating a pad metal sheet and a sacrificial insulating layer over another one over another one of the inner metal layers, etching the component metal sheet to form patterned component layer interconnect from the component metal sheet, etching pad metal layer of the pad metal sheet to form solder pads from the pad metal sheet, drilling castellation vias on

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the pad metal layer, and forming metal inside the castellation vias that connect the pad metal layer to the patterned component layer interconnect or the patterned interconnect on the inner metal layers, milling a cavity into the sacrificial insulator layer, the cavity not reaching the patterned interconnect on the inner metal layers and wherein the sacrificial layer covered by the solder pads forms a plurality of stand-offs after milling, whereby the solder pads on the stand-offs are surface-mountable to a main board.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. J. Arbes whose telephone number is 571-272-4563. The examiner can normally be reached on M, T, R and F from 8 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Vo, can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. J. Arbes Primary Examiner Art Unit 3729